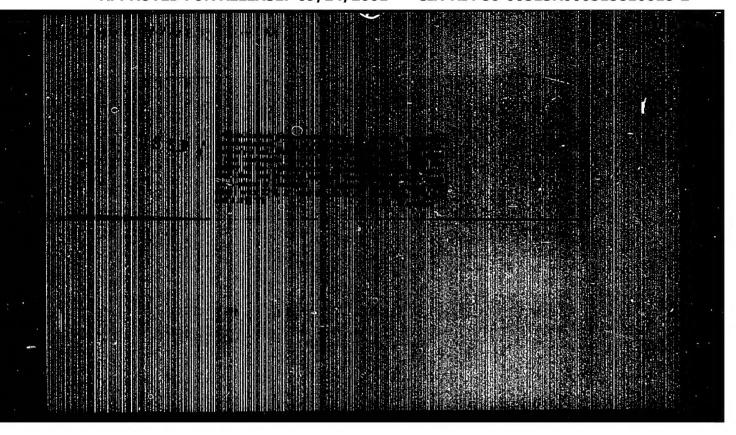
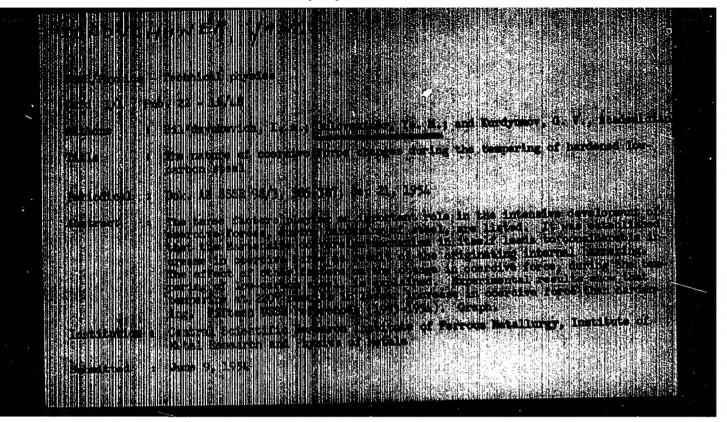


"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515810018-2





BII DETUKEVICH, I.A.; GOLOVCHIMER, Ya.M.; KURDYUNOV, G.V., akademik

Goercive force changes during tempering of hardened, low-carbon steel.

Probl. metalloved. i fix. met. no.4:205-208 '55. (MIRA 11:4)

(Steel--Heat treatment) (Ferromagnetism)

Stabilization phenomena during reversible martensite transformation.

Probl. metallowed. i fis. met. no.4:209-218 '55. (MIRA 11:4)

(Iron-nickel alloys--Metallography)

GOLOVCHIMER, Fa.K.; GOLUBROV, V.M.

Coercive force and width of X-ray interference lines in low-carbon alloyed steels. Probl. metalloyed, i fix. met. no.4:222-227

'55. (Steel alloys--Heat treatment)

(Ferromagnetism)

(Ferromagnetism)

BORZDYKA, A.M., dekter tekhnicheskikh nauk; KAMINSKIY, B.Z., kandidat fizikematematicheskikh nauk; BUTAHOV, M.V., kandidat tekhnicheskikh nauk; GRHERIMOV, B.A., detsent; GOLOYGHIMB, Ya.M., inzhener.

"Properties of materials used in turbine building and methods of testing them." Reviewed by A.M.Berndyka and others. Zav.lab.22 no.4: 511-512 '56. (Metals-Testing) (MIRA 9:7)

GOLOVCHINER, YA.M.

Category : UBSR/Solid State Physics - Phase Transformation in Solid Bodies E-5

Abs Jour : Ref Zhur - Finila, No 2, 1957 No 3817

Author : Golovchiner, Ya.M., Landa, R.A.

Inst : Institute of Metal Working and of Metal Physics. Central Scientific

Research Institute for Ferrous Metallurgy.

Title : Investigation of the Fine Crystalline Structure of the & Phase, Stabil-

ized by the Reverse Martensitic Transformation.

Orig Pub : Dokl. AN SSSR, 1956, 107, No 1, 67-70

Abstract : X-ray methods were used to study the variation in the fine crystalline

structure of sustenite of an alloy of iron with 27.2% nickel and 1.15% titanium, subjected to the following stabilizing treatment: 90% reduction, cooling in liquid nitrogen, and subsequent heating to various temperatures from 640 to 775°. The result of such a treatment was a direct and reverse martensitic transformation. It is shown that the state of stabilization corresponds to a state of internal phase hardening, characterized by an increased hardness, considerable stresses of the second kind, and certain crushing of the mosiac blocks. Increasing the heating

temperature causes a linear reduction in the stresses of the second

Card : 1/2

# "APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515810018-2

SOV/137-59-4-8507

Translation from: Referativeny shurnal, Metallurgiya, 1959, Nr 4, p 167 (USSR)

AUTHOR:

Golovohiner, Ya.M.

18

TITLE

On the Process of Mucleation in Martensite Transformation

PERIODICAL:

Sb. tr. In-t metalloved, 1 fig. metallov Tsentr. n.-i. in-ta chernoy

metallurgii, 1958, Vol 5, pp 66 - 90

ABSTRACT:

The author discusses various notions on regularities in the process of nucleation in martensite transformation and various resulting hypotheses and notions on the causes of rapid damping of this process in isothermic holding in the presence of great amounts of non-transformed high-temperature phase (the so-called third peculiarity of martensite transformation). It is stated that the Kurdyumov theory is not able to explain the third peculiarity in connection with the fact that martensite transformation is considered in the theory as a transformation occurring in a stress-free medium; however, it is necessary to take this factor into account to analyze the process of transformation during the initial stage. Martensite crystallisation takes place during the initial stage according to general conditions formulated by G.V. Kurdyumov. Furthermore

Card 1/3

On the Process of Madleation in Martensite Transformation

sov/137-59-4-8507

it is necessary to consider the effect of the originating field of variable microstresses. In the deformed metal it is necessary to distinguish zones of singlevalued microstresse, whose dimensions do not generally coincide with the dimensions
of the modale block. The martensite crystal nucleus arises in the zone of singlevalue microstress and is growing in such a manner that the stress occurring there
value microstress and in the direction, with the stress which must be created
coincides in the sign and in the direction, with the stress which must be created
by the origination of the nucleus; this decreases expenditures for the elastic
by the origination of the martensite nucleus, whereas expenditures for the surface
work of formation of the martensite nucleus, whereas expenditures for the surface
emergy are low due to the conjugation of the lattices. The dimensions of the singleemergy are low due to the conjugation of the lattices, the dimensions of the process during
inhibition of martensite transformation takes place. Damping of the process during
inhibition of martensite transformation takes place. Damping of the process during
isothermic holding is explained by the origination of new microstresses with each new
isothermic holding is explained by the origination of new microstresses. Dropping temperature
martensite crystal which reduces the zone of single-value stresses. Dropping temperature
and, consequently, reduction of the critical dimension of the nucleus create the possibility

Card 2/3

# "APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515810018-2

On the Process of Nucleation in Martensite Transformation

SOV/137-59-4-8507

of using reduced somes of single-value stresses. During the last stage of transformation a field of close compression is being formed due to the prevalence of somes with compressed lattice; the transformation stops. The formation of a field of variable stresses by plastic deformation from without may exert a stimulating effect at low degrees of deformation. There are 37 bibliographical titles.

V.R.

1

Card 3/3

SOV/137-58-7-15653

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 248 (USSR)

Golovchiner, Ya.M., Landa, R. A., Khalin, L.M. AUTHORS:

TITLE: Study of the Mosaic Structure of the Gamma Phase of Iron-nickel Alloys during Direct and Reverse Martensite Transformation (Lzucheniye mozaichnoy struktury gamma-fazy zhelezonikelevykh splavov pri pryamom i obratnom martensitnom prevra-

shchenii)

PERIODICAL: Sb. tr. In-t metalloved. i fiz. metallov Tsentr. n. -i. in-ta chernoy metallurgii, 1958, Vol 5, pp 136-146

ABSTRACT: Alloys of the composition (in %) C 0.05, Ni 27.3, Ti 1.2, and the balance in Fe (I) and C 0.06, Ni 23.5, Mn 3.3, the balance in Fe (II), were investigated. By means of the variation of the Debye interference spot the maximum disorientation (D) of the mosaic structure, and the behavior of the y phase in the course of the direct (DMT) and reverse (RMT) martensite transformation were studied. The D increases considerably during DMT and to a still greater extent during

RMT. Upon raising of the heating temperature after the Card 1/2 completion of RMT the D also increases. In alloy II the D

SOV/137-58-7-15653

Study of the Mosaic Structure of the Gamma Phase (cont.)

decreases somewhat in the initial state of RMT which can be attributed to "elastic" relaxation of stresses of type II. In the course of RMT and during subsequent heating, a modification of the orientation of the crystal as a whole is also observed, aside from the increase in D.

1. Iron-nickel alloys--Phase studies 2. Iron-nickel alloys--Structural amalysis

L. V.

Card 2/2

GOLOVCHINER, Ya.M.

137-58-6-13268

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 300 (USSR)

AUTHORS: Maksimova, O.P., Golovchiner, Ya.M., Lyubov, B.Ya.,

Nikonoreva, A.I.

TITLE: Fundamental Trends in Investigations of the Theory of Mar-

tensite Transformation (Osnovnyye napravleniya issledovaniy

v oblästi teorii martensitnykh prevrashcheniy)

PERIODICAL: Sb. tr. In-t metalloved. i fiz. metallov Tsentr. n.-i. in-ta

chernoy metallurgii, Trans. Amer. Soc. Metals, 1957,

Nr 49, pp 427-444. Discuss. 1958, Vol 5, pp 147-160

ABSTRACT: Fundamental problems of the study of laws governing the

martensite transformation (MT), the effect of various factors on it, and the control of the process of MT, also means and

methods for the investigation of MT are formulated. Bibliography: 80 references.

L.

1. Martensite--Analysis 2. Martensite--Theory 3. Metals--Trans-

formations

Card 1/1

28(5), 24(4)

s/n32/60/026/C\* /036/052 R010/B006

AUTHOR:

Golovchiner, Ya. M.

TITLE:

X-Ray Chamber for Investigating the Degree of

Disorientation in Crystals

PERIODICAL:

Zavodskaya laboratoriya, 1960, Vol 26, Nr 1, pp 106-108

(853R)

ABSTRACT:

The maximum angle  $\mathscr O$  of the degree of disorientation is an important characteristic of mosaic structure. For precise determinations of  $\mathscr O$ , the angle of convergence  $\beta$  of the primary X-ray beam must be larger, i.e.  $\beta$  . In a scaled X-ray tube, the maximum value for  $\beta$  is 3°, while  $\mathscr C$  can be up to 15° (Refs 1,7). B. M. Rovinskiy and L. M. Rybakova (Ref 5) used a dismountable tube with a large focal spot to widen  $\beta$ . In the present case, the usual scaled tube and a slightly modified Debye chamber were applied. By using a simple X-ray goniometric unit photographic conditions were attained, which rendered possible an effective convergence of 16°. The sample is attached firmly in the

Card 1/2

X-Ray Chamber for Investigating the Degree of Disorientation in Crystals

S/032/60/026/01/036/052 B010/B006

middle of the cylindrical film holder (Fig 1) and can be turned about an angle of \$20 together with the latter, thus giving the primary X-ray beam a convergence of about 160. This convergence, however, is not axially symmetrical. The description of the working technique of this instrument shows, that by turning the film holder (and thus the sample) not superposed reflexes are obtained, giving a photograph which is intensely blurred not only in azimuthal, but also in radial direction. A diagram (Fig 2) obtained by means of the apparatus described above is given, illustrating the dimensional and structural changes occurring in the Debye crystallograms of the \$7\$-phase in the course of the martengite transformation. There are 2 figures, and 7 references, 5 of which are Soviet.

ASSOCIATION:

Tsentr#1'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute of

Ferrous Metallurgy).

Card 2/2

\$/032/60/026/04/12/046 B010/B006

AUTHOR:

Golovchiner, Ya. M.

TITLE:

On Questions Concerning Methods for Measuring Second Order Stresses and the Dimensions of Blocks of Mosaic Structure

PEHIODICAL: Zavodskays laboratoriya, 1960, Vol. 26, No. 4, pp. 431 - 444

TEXT: A detailed discussion is given of the integral method (approximation method) for the K-ray investigation of the fine-grain structure of polycrystal-line objects, which is based on the determination of the width of X-ray lines. Recommendations for avoidance or reduction of errors in existing methods are given. It is found that an erroneous view-point regarding some experimental conditions may lead to serious errors. The following questions are therefore discussed separately: taking into account the anisotropy of the elastic properties of crystals, selection of band pairs, selection of approximation function, and the possibilities of reducing the instrumental band width. A table shows the relative errors in the determinations of structure blocks, and second order stresses as given by the following investigators: L. S. Moroz (Ref. 5), G. Y. Kurdyunov and L. I. Lysak (Befs. 4,8,38), B. M. Rovinskiy and

Card 1/2

On Questions Concerning Methods for Measuring Second Order Stresses and the Dimensions of Blocks of Mosaic Structure S/032/60/026/04/12/046 B010/B006

L. H. Rybakova (Refs. 3,4), Ye. C. Mesterenko (Ref. 21), W. A. Wood and W. A. Rachinger (Refs. 13,36). Basing on the results published in the present paper an annealed Armon iron was investigated by cobalt radiation using the KROS-1 camera (band (310)). Agreement between experimental and calculated values was satisfactory, A camera (Pig. 5) was designed (designers: V. M. Kutyrina and C. A. Dmitriyevakaya), which renders it possible to investigate the band width when working with the URB-70 apparatus and an ordinary RSV-1 tube? Finally, it is indicated that the existing methods, developed by the above-mentioned investigators, ought to be standardized. This would make a comparison of experimental values possible. A special conference on questions relating therto seems necessary. Publications by M. P. Arbuzov, K. V. Chuistov, B. Ya. Pines, and a thesis for a diploma by R. A. Landy are mentioned in the paper. There are 6 figures, ! table, and 47 references, 52 of which are Soviet.

ASSOCIATION: Tsentral'ny's nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute of Ferrous Metallurgy)

Card 2/2

GOLOVEH, NER, JUM.

# PHASE I BOOK EXPLOITATION SOV/5525

Bagaryatskiy, Yuriy Aleksandrevich, Dostor of Physics and Mathematics; Yakov
Mendelevich Golovchiner; Vera Alekseyevna; Emmanuil Zel'manovich Kaminskiy, Candidate of Physics and Mathematics; Viktor Mikhaylovich Kardonskiy; Vladislava date of Physics and Mathematics; Leonid Ivanovich Lysak, Kazimirovna Kritskaya, Candidate of Physics and Mathematics; Leonid Ivanovich Perkas, Doctor of Technical Sciences; Yuriy Andreysvich Osip'yan; Mark Davydovich Perkas, Candidate of Technical Sciences; Vladimir Moiseysvich Rozenberg, Candidate of Technical Sciences; Nadexhda nical Sciences; Naum Isaakovich Sandler, Candidate of Technical Sciences; Nadexhda Trofinovna Travina, Candidate of Physics and Mathematics; and Lev Markovich Utavskiy, Candidate of Technical Sciences.

Rentgenografiys v fizicheskom metallowedenii (Radiography in Physical Metallography)
Moscow, Metallurgisdat, 1961. 368 p. 5,200 copies printed.

Sponsord gagenoies: Gosudarstvennyy nauchno-ekonomicheskiy Sovet SSSR. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii im. I.P. Bardina. Institut metallovedeniya i fiziki metallov.

Ed. (Title page): Yu. A. Bagaryatskiy; Ed. of Publishing House: Ye.N. Berlin; Tech. Ed.: Ye.B. Vaynshteyn.

Card 1/7

Radiography in Physical Metallography

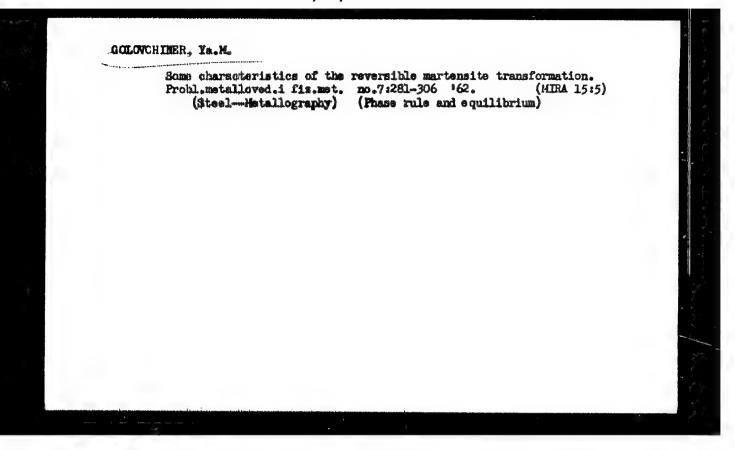
SOV/5525

PURPOSE: This handbook is intended for x-ray technicians working in plant laboratories of the metallurgical and machine-manufacturing industry. It may also be useful to technical personnel in the field of applied x-ray diffraction analysis employed at scientific, technical, and educational institutions.

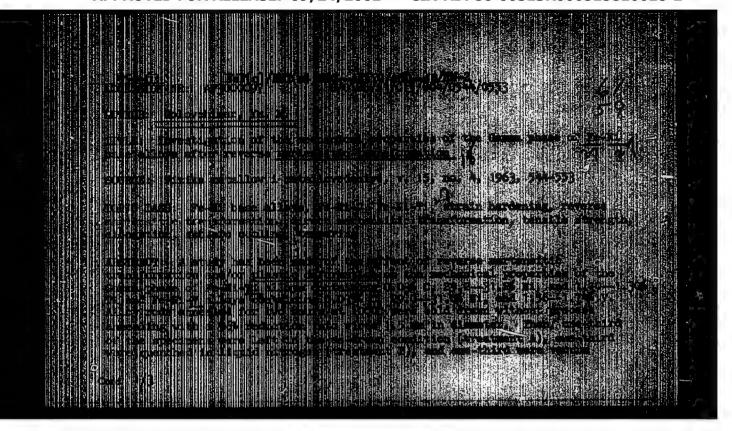
COVERAGE: The handbook contains basic information of the methods employed in metallography. It consists of four parts. Part I contains descriptions of methods for the study of polyerystals, including the special features of the work with sharp-focused tubes and ionisation counters, preparation of specimens, and choice of radiation sources, filters, cameras, and geometry of the picture. Data on the photomatering of x-ray pictures and on the application of electron diffraction techniques to metal science are also presented. Part II contains a detailed description of stresses and deformations in crystals of metal, as well as of new methods for measuring the size of grains and areas of coherent scattering. The material also contains data on methods for studying the recrystallization of metals for determining textures. Part III is devoted to x-ray phase analysis to be carried out with the aid of tables included in the appendix. Part IV deals with x-ray studies of steel that has been variously treated by thermal and thermochemical methods. No personalities are mentioned. There are 282 references: 199 Soviet, 55 English, 26 German, and 2 French.

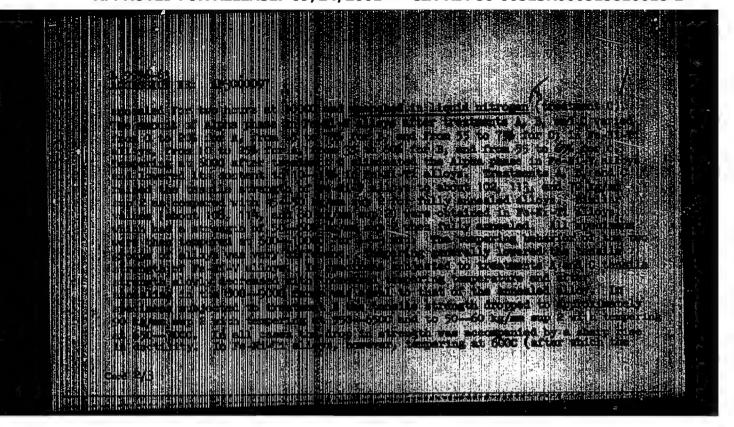
Card 2/7:

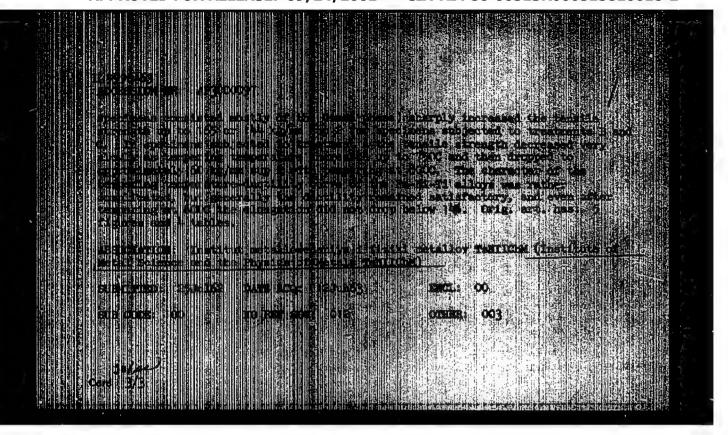
# Effect of certain factors of the geometry of photographing on the magnitude of the accidental error in the precise determination of the lattice period. Kristallografiia 6 no.3:357-362 My-Je '61. 1. Institut metallovedeniya i fiziki metallov. (X-Ray crystallography) (Crystal lattices)

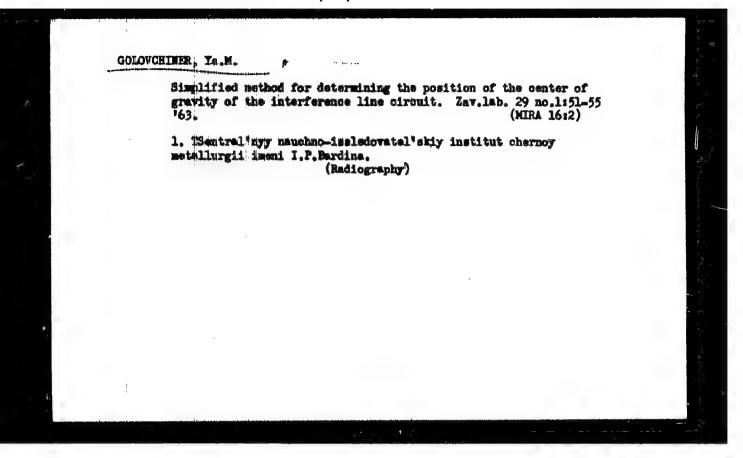


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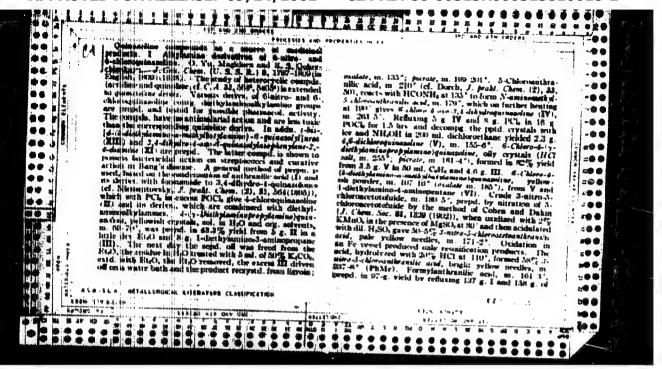




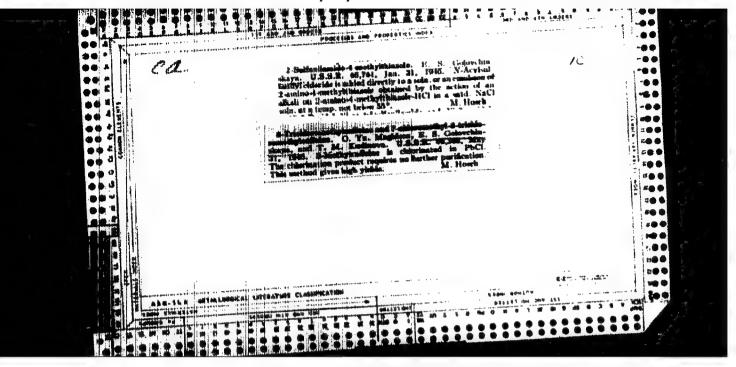
# GOLOVCHINER, Ya.M.

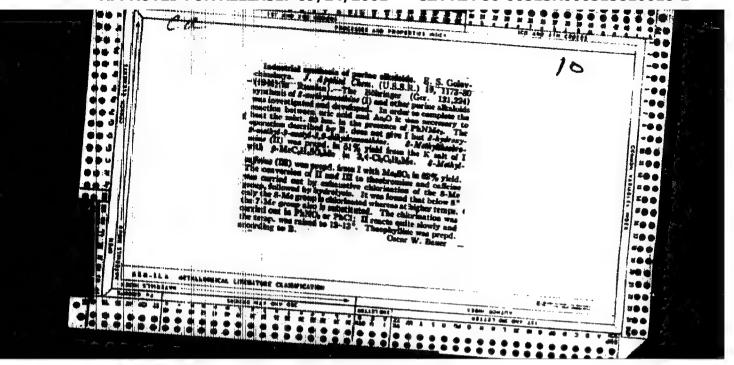
Precision measurement of the lattice spacing under conditions of broadened interference lines. Zev. lab. 30 no.6:707-712.64 (MIRE 17:8)

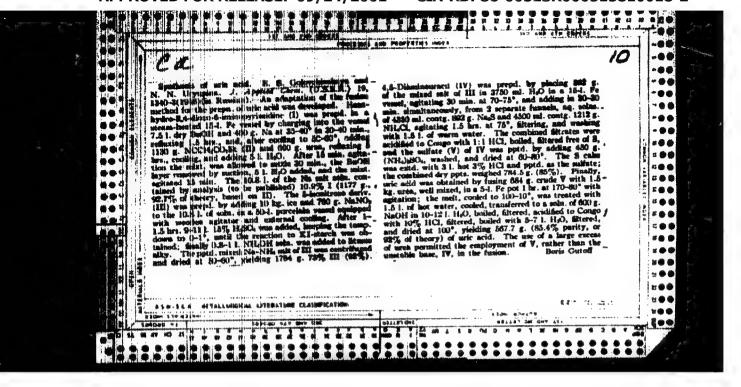
l. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni I.P. Berdina.

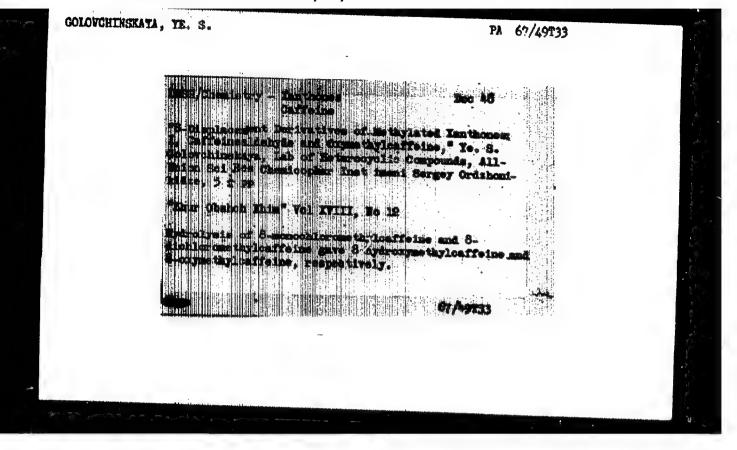












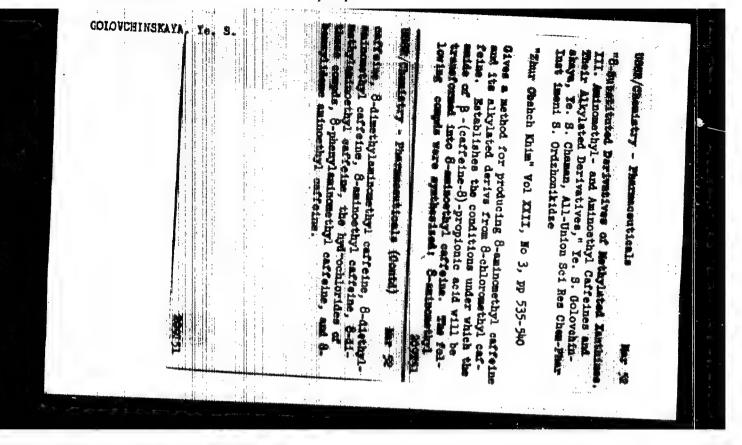
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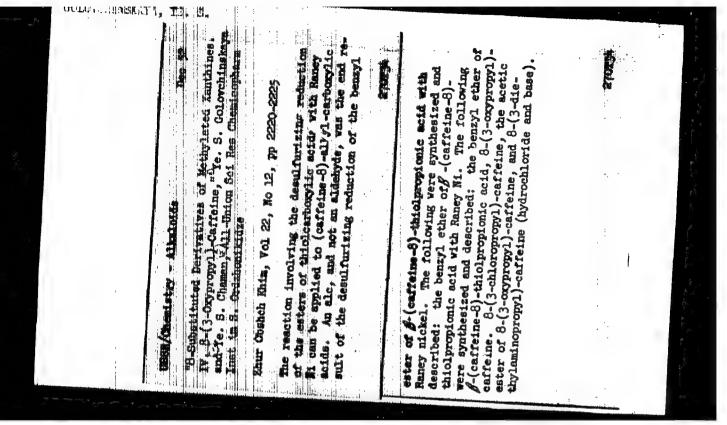
B. S. Golovchinskain, Eight substituted derivatives of methylated manthines. I. Caffeine-aldehyde and oxy-methyl-caffeine. p. 2129.

Oxy-methyl-caffeine is formed as result of hydrolysis of 8-mono-chloro-methyl-caffeine, and 8-caffeine-aldehyde on hydrolysis of 3-di-chloro-methyl-caffeine.

Lab. of Heterocyclic Compounds, the Orshanikidse. All Union Scientific Research Inst. of Pharmaceutical Chem. December 9, 1946

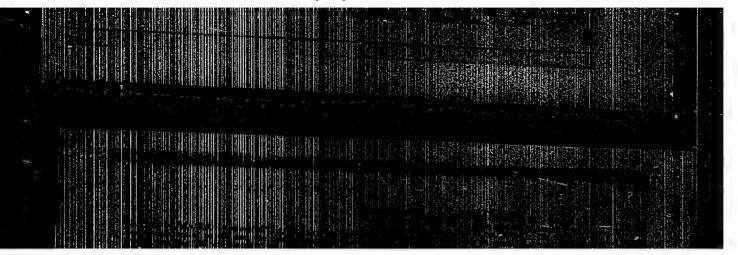
SO: J. Gen. Chem. (USSR) 28, (80) No. 12, 1948





"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515810018-2 (V. Desulfurizing Reduction of the Intails Enter of The desulturizing reduction of the thiolic esters of Caffeine-8 Carbowille Acid, "Te. S. Golovchinskays.
And Te. S. Chamani-All Union Sci-Res Chemicopharm.
Inst im S. Ordzhonikidze. "8-Substituted Derivatives of Methylated Kanthines. alcohols by the action of Raney Mi, and partly spiit Hi, was accompanied by the formation of compds having one less carbon -tom in a side chain. The caffeine-8-carboxylic acids to primary aics, over 270133 off one carbon link at the expense of the carbonyl derivatives of caffeine, having an aldehyde substituted in the 8 position, partly converted to Zhur Obshch Enim, Vol 22, No 12, pp 2225-2229 USBR/Chaminty + 41 haloid





## COLOUCE TREKAYA, Ye. F.

8-Substituted Derivatives of Methylated Xanthines. VIII. Caffeine-8-Alkyl Carboxylic Adds and 8-Alkyl Caffeines. page 702. Sbornik statey po obshchey 1953, pages 762-766.

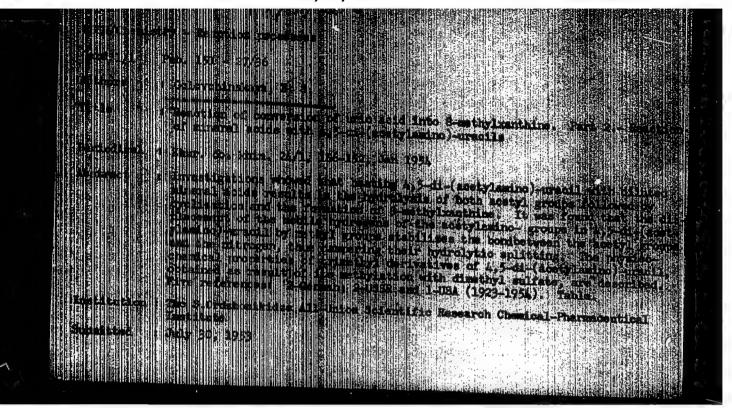
All-Union Sci Res Chemico-Pharmaceutical Inst imeni S. Ordshonikidze, laboratory of Haterocyclic Compounds

GOLOVCHINERIANA, Ne.S.

(Nelena Semenovna)

"Investigation of the Synthesis of Purine Compounds," (Dissertation), Academic degree of Doctor in Chemical Sciences, based on her defense, 24 June 1954, in the Council of the All-Union Sci Res Chemicopharmaceutical Inst im.

**@**-M- 3,054,778, 2 0ct 57.



GOLOVCHINSKAYA, Ye.S.; GLIMMEN, R.G.; CHEMERISSKAYA, A.A.

Purification of 8-methyltheebromine. Zhur.prikl.khim. 30

no.12:1806-1810 D \*57. (Kanthine)

#### GOLOVCHERSKAYA, Ye.S.; PRINGOVA, V.N.; CHERKASOVA, A.A.

Preparation of 8-(trichloromethyl)- theobromine and theobromine.

Zhur. prikl. khim. 31 no.8:1241-1245 Ag '58. (MIRA 11:10)

1. Vsesogusnyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordshonikidse.

(Theobrowine)

5(3) AUTHOR:

Colovchinskaya, Ye. S.

SOV/79-29-4-37/77

TITLE:

On the Transformation Reaction of Uric Acid Into 8-Methylxanthine (O reaktsii prevrashcheniya mochevoy kisloty v 8-metilksantin). III. Synthesis of Methyl-isocaffeine and the Structure of the Triagetyl Derivative of 4,5-Diaminouracil (III. Sintez metilizokofeina i stroyeniye triatsetil'nogo proizvodnogo 4,5-di-

aminourateila)

PERIODICAL:

Zhurnel obshchey khimi:, 1959, Vol 29, Nr 4, pp 1213-1218 (USSR)

ABSTRACT:

The application of the rather short scheme 1 for the synthesis of methyl-isocaffeine (III) suggested by the author on an earlier occasion (Ref 1) and mentioned in the present article is rendered impracticable by the difficulty encountered in separating trimethyldiacetate (I) from the aqueous solution after methylation because of its high degree of solubility in water. Moreover, the quantity of diacetate (II) crystallized from water was only 40-45% in relation to uric acid. Another product (25-30%) was isolated from the mother liquors by evaporation after (II) had been separated. This product, however, was a mixture of di- and monoacetate. For this reason the aggregate (III) yield amounted

Cambet 1

SOV/79-29-4-37/77 On the Transformation Reaction of Uric Acid Into 8-Methylxanthine. III. Synthesis of Methyl-isogaffeine and the Structure of the Triacetyl Derivative of 4,5-Diamincuracil

to as little as 27-28%. A convenient synthesis of methyliso-caffeine (of 1,3,8,9-tetramethylxanthine) from uric acid was found, which eliminated the necessity of removing the intermediate products individually and resulted in satisfactory yields. It was found that one of the products forming during methylation of the product mixture obtained by splitting uric acid by means of acetic anhydride is 1,3-dimethyl-4-acetylmethylamino-5-diacetylaminouracil (I). Its structure was determined on the basis of its chemical transformations and by identification with a compound synthesized by another method. Its formation by the above methylation is proof of the fact that the initial triacetyl derivative of 4,5-diaminouracil, which makes up part of the mixture, is 4-acetylamino-5-diacetylaminouracil. There are 1 table and 13 references, 7 of which are Soviet.

ASSOCIATION:

Card 2/

Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemico-pharmaceutical Research Institute imeni S. Ordzhonikidze)

5(3) AUTHORS:

Golovchinskaya, Ye. S., Kolodkin, P. L. SOV/79-29-5-52/75

TITLE:

On the Reaction of the Transformation of Uric Acid into 8-Methyl Xanthime (O reaktsii prevrashcheniya mochevoy kisloty v 8-metilksantin). IV. Hydrolysis of 4,5-di-(Acetylamino)-Uracil (IV. Gidrolk 4.5-di-(atsetilamino)-

urateila)

PERIODICAL:

Zhurnal obsheher khimii, 1959, Vol 29, Nr 5, pp 1650-1656

(USSR)

ABSTRACT:

When methylating the uracil compound mentioned in the title a crystalline precipitate, which was identified as a mixture of 1-methyl- and 1,3-methyl derivative of 4-amino-5-acetyl amino-uracil, is formed in the mother liquor after separation of the crystals of the 1,3-dimethyl compound obtained. The question was investigated whether these compounds were formed in consequence of a side reaction in the methylation of the discetyl amino compound, or whether the monoacetyl compound had already been added to the initial substance. Experiments showed that the latter assumption was right. Moreover, a hydrolytic separation takes place when evaporating the

Card 1/3

discetylamino compound, in which case one mole of acetic acid

On the Reaction of the Transformation of Uric Acid in- SOV/79-29-5-52/75 to 8-Methyl Kanthine. IV. Hydrolysis of 4,5-di-(Acetylamino)-Uracil

is released. This acetic acid released could be titrated both im the solution itself (Table) as well as after distilling off with water vapor (Fig 2). By the acetic acid released moreover, bisallorasines are formed, that were proven by their UV-spectrum (Fig 1), and whose formation by the effect of awids had already been described by other authors (Ref 5). While hydrolysis of diacetylamino uracil to a monocompound takes place without the effect of acids nor lyes, the monocompound is saponified only after distilling off the acetic acid formed and after addition of diluted sulphuric acid. The conclusion is drawn that in the synthesis of different derivatives of xanthine and isoxanthine a crystallisation of diagetyl- or triacetyl compounds from aqueous solution is to be avoided, because the hydrolysis formed leads to losses. The experimental part describes the reactions carried out and gives the physical and the analytical data of the compounds. The authors thank K. A. Chkhivadse for having put at their disposal for comparison purpose samples of 1,3,1',3'tetramethyl hidurylic acid and of 3-methyl- and 1,3-dimethyl-

Card 2/3

On the Reaction of the Transformation of Uric Acid in SOV/79-29-5-52/75 to 8-Methyl Kanthine. IV. Hydrolysis of 4,5-di-(Acetylamino)-Uracil

4,5-dismino uracil. There are 2 figures, 1 table, and 8 references, 3 of which are Soviet.

ASSOCIATION:

Vsescyusnyy nauchno-issledovatel'skiy khimiko-farmamevticheskiy institut imeni S. Ordzhonikidse (All-Union Scientific Research Institute of Pharmaceutical Chemistry imeni S. Ordzhonikidse)

SUBMITTED:

March 21, 1958

Card 3/3

5(3), 17(3)

SOV/80-32-4-39/47

AULHORS:

Glushkov, R.G. and Golovchinskaya, Ye.S.

TITLE:

The Synthesis of  $\alpha$ ,  $\beta$  -Cyclopentamethylenetetrazole (Corazole) (Sintez  $\alpha$ ,  $\beta$  -teiklopentametilentetrazola (korazola)

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 4, pp 920-923 (USSR)

ABSTRACT:

The d, \$\beta\$-cyclopentamethylenetetrazole (corazole) is a powerful camphor-like drug with respect to its action on respiration, central nervous system and blood circulation. There are many patents for various methods of its preparation. The authors made use of one of the German patents of knoll [Ref ] and introduced some modifications and improvements in order to develop a method of corazole synthesis, which could be suitable for practical purposes. Two variants of the synthesis were developed. In one of them, the oxime of cyclohexanone serves as an initial substance, and in the other - the lactam of \$\mathbb{C}\$-leucine. The parification of the technical corazole obtained is achieved by means of crystallization out of the small quantities of water. A detailed the article.

There are: 1 graph and 10 metables are subsequent purification is given in

Continued 2

There are: 1 graph and 10 references, 1 of which is Soviet, ? German, 1 American and 1 French.

a-U Sci Ras Chem Charmo Inst in S. Ontyhorikidge

CHUSEKOV, R.G.; QOLOVCHINSKAYA, Ye.S.

Synthesis of corasole (, -pentamethylentetrasole) from caprolactum, Med.prom. 14 no.1:12-15 Ja 160. (MIRA 13:5)

1. Vassoyusnyy nauchno-iusledovatel skiy khiziko-farmatsevticheskiy institut imeni S. Ordzbenikidze.
(METREZOLE)

ZHERMOCHEMKO, P.G.; GOLOVCHINSKATA, Ye.S.; KOSTTANOVSKIY, R.G.; KRASHTKH, I.G.; KUZHETS, Ye.I.; NAGIDSOW, O.Ta.; MURASHOVA, V.S.; PASTUKHOVA, I.S.; PHROGRAZHENSKAYA, N.H.; SUVOROV, N.W.; TER-VARTANYAN, L.S.; ZHEKLINVADUR, K.A.; SHASHKOV, V.S.; SHCHUKINA, N.N.

Role of oxidative desmination in the mechanism of radiation protection afforded by some amines. Zhur.ob.biol. 21 no.2: 157-160 Mm-Ap '60. (MIRA 13:6) (RADIATION PROTECTION) (DEAMINATION)

GOLOVCHI ESKAYA, Ye.S.; CHARAN, Ye.S.

Syntheses in the series of isoxanthine derivatives. Part 1: Synthesis of disethylisoxanthine and its 8-chloro derivative from 1,3,9-trimethyl-isoxanthine. Zhur.ob.khim. 30 no.6: 1873-1878 Je \*60. (MIRA 13:6)

la Vaescynamyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordshonikidse. (Isoxanthine)

CHAMAN, Ye.S.; CHURKASOVA, A.A.; GOLOVCHINSKAYA, Ye.S.

Syntheses in the series of isoxanthine derivatives. Part 2: Some amino acid derivatives of methylated xanthine and isoxanthine. Zhur.ob.khim. 30 no.6:1878-1884 Je \*60.

(MIRA 13:6)

l. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordshonikidze. (Isoxanthine) (Xanthine) (Amino acids)

GOLOVCHALSKAYA, Ye.S.; CHAHAM, Ye.S.

Synthemes in the series of isoxanthine derivatives. Part 5: 8-Isocaffeinmalonic ester and smides of 8-isocaffeinacetic acid. Zhur. ob. khim. 30 no.11:3628-3633 N'60. (MIRA 13:11)

1. Vensoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordshonikidze.

(Isoxanthine)

VIGODOHIROV, G.V., profes GOLOWCHIRSKAYA, Ye.S., prof.; LEVCHENKO, L.A., kand. med. nauk; KIKHAYLOVA, G.S., kand. farm.nauk; ROZENTSVEIG, P.Ye., kand. farm.nauk; TOMINGAS, A.Ym., prof.; GHERNYAVSKIY, M.N., kand.filol.nauk; ESKIH, I.A., doktor biol.nauk, prof.; CHOYMAKOVA, A.N., red.; SENCHILO, K.K., taking red.

[State pharmacopoeia of the Union of Soviet Socialist Republics] Gosm-daratvermaia farmakopeia Solusa Sovetskikh Sotsialisticheskikh Respublik. IEd.9. Hoskva, Gos.ind-vo med.lit-ry Medgis, 1961. 910 p. (MIRA 14:6)

l. Hussia (1923- U.S.S.R.) Ministerstvo sdravookhraneniya. 2. Deystvitel'noy chlem AME SSSR (for Vygodehikov). 3. Deystvitel'nyy chlem AM Estonskoy SSR (for Tomingas)

(Pharmacopoeias)

KRASNYKH, I.G.; SHASHKOV, V.S.; MAGIDSON O.Yu.; GOLOVCHINSKAYA, Ye.S.;

GHKHIKVANZE, K.A.

Gapacity of some new derivatives of purine and pyrimidine to protect against radiation, Farm. i toks. 24 no.5:572-977 S-O

\*61.\*

(RADIATION PHOTECTION)

(PYRIMIDINES)

(PYRIMIDINES)

COLOVCHINSKAYA, Ye.S.; OVCHAROVA, I.M.; CHERKASOVA, A.A.

Syntheses in the series of isomathine derivatives. Part 3:
1,9-dimethylisomanthine. Zhur.ob.khim. 30 no.10:3332-3339 0
(MIRA 14:4)
1. Wessyumny nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordahonikidze.

(Isomanthine)

# OVCHAROVA, I.M.; GCLOVCHINSKAYA, Ye.S. Syntheses in the series of isoxanthine derivatives. Part 4: 8-Alkoxy derivatives of 1,9-dimethyl- and 1,3,9-trimethylisoxanthine. Zhur.ob.khim. 30 no.10:3339-3343 0 161. (MIRA 14:4)

1. Vsesoyumnyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy imstitut imeni S.Ordahonikidae.
(Isoxanthine)

CHAMAN, Yo.S.; GOLDVCHINSKAYA, Ye.S.

Syntheses in the series of isoxanthine derivatives. Part 6: Halogen derivatives of (isocaffeine-8)-malonic ester. Zhur. ch.khim. 31 no.8:2645-2650 kg '61. (MIRA 14:8)

1. Vsesommeny nauchno-issledovateliskiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.
(Xanthine)

OVCHAROVA, I.M.; MIXOLAYEVA, L.A.; CHAMAN, Ye.S.; GCLOVCHI SKAYA, Ye.S.

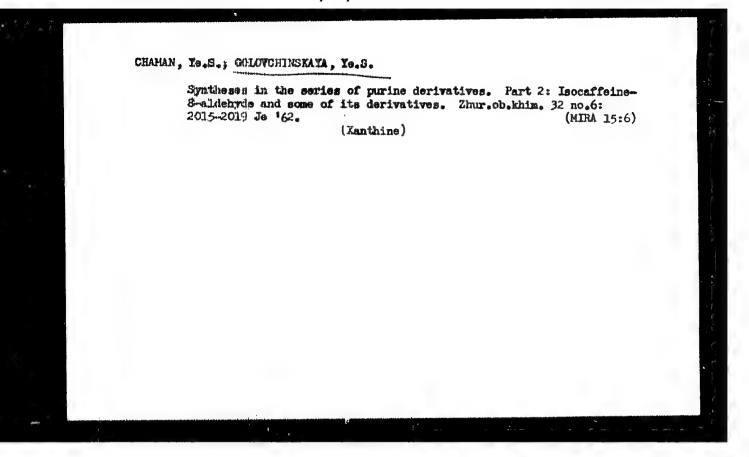
Syntheses in the series of purine derivatives. Part 1: Preparation of 2.6-dichloro-9-methylpurine and synthesis of some derivatives of 1,9-dimethylhypoxanthine. Zhur.ob.khim. 32 no.6:2010-2015 Je '62.

(MTRA 15:6)

1. Vsesdoymanyy nauchakidses.

(Purine)

(Rypoxanthine)



#### GOLOVCHIMSKAYA, Ye.S.; CHAMAN, Ye.S.

Syntheses in the series of purine derivatives. Part 3.

Some conversions of 8-chloromethylisocaffeine. Zhur.ob.khim.
32 no.10:3245-3248 0 \*62. (MIRA 15:11)

l. Vsesoyusnyy nauchno-issledovatel'skiy khimiko-farmatsavticheskiy institut imeni S. Ordshonikidse.
(Purine)
(Isocaffeine)

GOLOVCHINSKAYA, Ye. S.; MOKHAPPIED YASIN EBED; CHAMAN, Ye. S.

Synthesis of theohromine-8-aldehyds and some of its transformations, Zhur. ob. khim. 32 no.12:4097-4098 D '62. (MIRA 16:1)

1. Vsescyusnyy naughno-issledovateltskiy khimiko-farmatsevticheskiy institut imeni S. Ordshonikidse.

(The obromine)

GOLOVCHINSKATA. Te. B.; KOLOMBOVA, U.A.; NIKOLAYEVA, L.A.; CHAMAN, Yo.S.

Synthesis in the series of purine derivatives. Part 4: Alkaline degradation of 1,3,9-wirimethylxanthine derivatives. Zhur. ob. khdm. 33 no.5:1650-1654 My 163. (MIRA 16:6)

1. Vsesoyusnyy naudmio-isaledovateliskiy khimiko-farnatsevticheskiy institut imeni S. Ordshonikidse. (Xanthine)

CHAMAN, Ya.S., GOLOVCHINSKAYA, Yo.S.

Synthesis in the series of purine derivatives. Part 5: Synthesis of some C ()-substituted derivatives of 9-methylpurine. Zhur.ob.khim. 33 no.10:3342-3349 0 \*63. (MIRA 16:11)

l. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevti-cheskiy institut imeni S.Ordzhonikidze.

OVCHAROVA, I.M.; GCLOVCHINSKAYA, Ye.S.

Synthesis of 1-alkyl-6-iminopurines. Thur. ob. khim. 34 no.7: 2472-2473 J1 '64 (MIRA 17:8)

1. Vsesoyumyy nauchno-isskiedovatel'skiy khimiko-farmatsev-ticheskiy institut imeni S.Ordzhonikidwe.

OVCHAROVA, I.H.; GOLOVCHINSKAYA, Ye.S.

Syntheses in the series of purine derivatives. Part 7: Some transformations of 2,6-dichloro-9-methylpurine. Zhur. ob. khim. 34 no.10: 3247-3254 0 164.

Syntheses in the series of purine derivatives. Part 8: 1,9-Dimethylhypomanthine-2-malonic ester and its transformations. Ibid.:3254-3259 (MIRA 17:11)

1. Vsesoyumnyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.

#### GOLOVCHINSKIY, Y.B.

Correlation of superficial REG and discharges of solitary neurons of the first somatomensory zone of the cortex without amesthesis and under the effect of intranarker. Fixiel. shur. 51 no.10:1159-1169 0 165. (MRR 18:12)

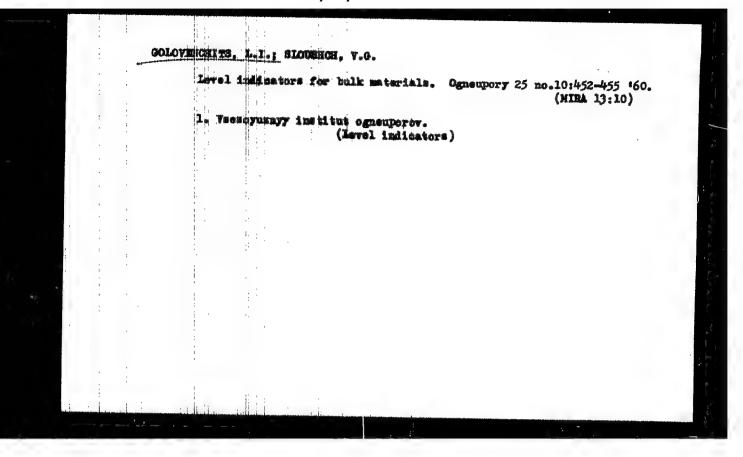
l. Laboratoriya Amastalologil i laboratoriya fiziologii Instituta khirurgii imeni A.V. Vishnevskogo MMN SEFE, Moskva. Submitted March 3, 1964.

GOLOVCHINSKIY, ...V.B.

Effect of barbiturate anesthesia on the correlation between fast and slow electric activity in the cerebral cortex. Zhur. vys. nerv. deiat. 15 no.6:1098-1106 N-D '65.

(MIRA 19:1)

1. Laboratoriya anesteziologii i laboratoriya fiziologii Instituta khirurgii im. A.V. Vishnevskogo AMN SSSR. Submitted November 24, 1964.



33415 S/032/62/028/002/016/037 B104/B108

9,257/ (//47,//63) AUTHORS: Gurevich,

Gurevich, A. G., Golovenchits, Ye. I., Starobinets, S. S.,

and Safant'yevskiy, A. P.

TITLE: Measurement of superhigh frequency ferrite parameters

PERIODICAL: Zavodskaya laboratoriya, v. 28, no 2, 1962, 189 - 196

TEXT: The authors first describe two devices for measuring the ferromagnetic resonances in single and polycrystals. The experimental arrangement shown in Fig. 1 is used for ferrites with a narrow resonance curve. The 5:-N (51-I) generator (8700-9500 Mcps) produces the high-frequency signals. The ferrite valve 2 prevents coupling between generator and measuring part. The ferrite valve 3 prevents a possible effect of the detector 4 on the resonance curve. Resonator 5 is a waveguide with rectangular cross section (23.10 mm) in which TE<sub>10n</sub> oscillations (n = 4-6)

are excited. In order to achieve the necessary high stability of the magnetic field the authors used the magnet 6 produced at the Laboratoriya postoyannyth magnitov NIITVCh (Laboratory for Permanent Magnets of the

Card 1/5,

33415 \$/032/62/028/002/016/037 B104/B108

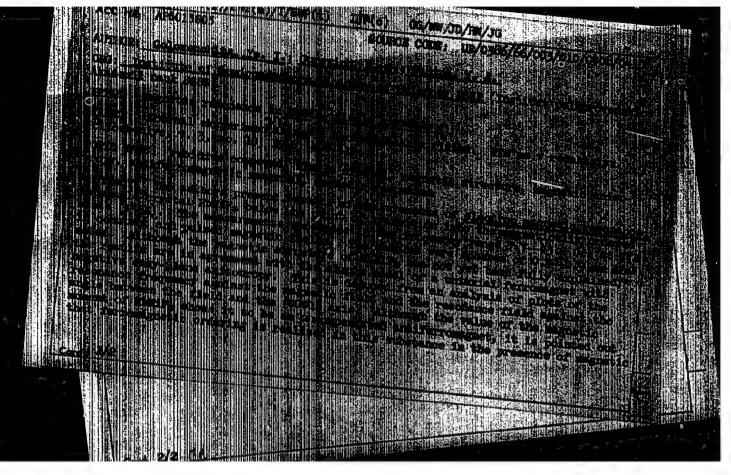
Measurement of superhigh ...

NiltyCh) with which the field could be varied in the range between 1000 and 5000 oe. With this device the dependence of the transmission coefficient on the constant magnetic field was determined. The arrangement shown in Fig. 3 was used to measure the ferromagnetic resonance of ferrites with wide resonance curve. To increase sensitivity a reflecting resonator was built into one of the branches of the waveguide bridge. The magnetic field can be varied in the range from 0 to 4000 oe. The authors discuss three circuits for measuring the components of the magnetic susceptibility tensor and the dielectric constant of ferrites. 3 cm, 10 cm, and 50 cm escillations were produced in resonators (Fig. 4) by klystron generators. The resonator signal is amplified and fed into the vertical amplifier of an 30-7 (80-7) oscilloscope. A. G. Gurevich and I. Ye. Gubler (report at the 3-ye Vsesovuznoye soveshchaniye po ferritam (Third All-Union Conference on Ferrites), Izd. AS BSSR, Minsk (1959)) are mentioned. There are 8 figures, 1 table, and 4 Soviet references.

ASSOCIATION: Institut poluprovodnikov Akademii nauk SSSR (Institute of Semiconductors of the Academy of Sciences USSR)

Card 2/6,

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515810018-2



# "APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515810018-2

D'YACHKOV, V.N., kand.tekhn.nauk; GOLOVENKIN, S.I., insh.; KOTOV, A.S., insh.

Overhead carrying and pushing conveyer with an automatic Addressing device. Mekh.i avtom.projev. 16 no.10:22-24 (MIRA 15:11) (Conveying machinery)

### GOLOVENKIN, V.P. (Kiyev)

Optimum set of parameters for the automatic control of radioelectronic apparatus. Izv. AN SSSR. Tekh. kib. no.4:107-110 Jl-Ag \*65. (MIRA 18:11)

ACCESSION NR: AR4086318

8/0081/64/000/004/P020/P021

SOURCE: Referativny\*y shurnal. Khimiya, Abs. 4P163

AUTHOR: Romankova, I. K.; Remizov, V. G.; Maydebor, L. K.; Golovenko, A. M.

TITLE: Investigation of a powdered cracking catalyst made from askangel

CITED SOURCE: Tr. Groznensk. neft. n.-i. in-t, vy\*p. 12, 1963, 94-105

TOPIC TAGS: catalytic cracking, cracking catalyst, askangel, petroleum, petroleum distillate, benzene, coke, octane rating

TRANSLATION: The physical properties, chemical composition initial index of activity and stability of a natural powdered cracking catalyst made from askangel, as well as the change in properties of this catalyst, were investigated during experiments carried out in an experimental installation at the GrozNII using a sectional reactor with a capacity of 5-7.5 kg of raw material per hour (a flow chart is presented). The main raw material used was a low-ash, wide fraction of contact coking pitch from the destructive distillation of sulfurous petroleum tar. The change in the cracking activity of the catalyst during the experimental process was periodically checked on the heavy distillate from the destructive

and 1/

# ACCESSION NR: AR4036318

distillation of sulfurous petroleum masut. It was shown that the stable index of activity of the catalyst equalled 20 points. The catalyst made of askangel has greater selectivity than the catalyst made of askanglin; thus, the ratio of benzene to coke is 4.5:1 against 3.1:1 for the askanglin catalyst. With practically the same yield of benzene (26-27%), less coke (5.8 and 8.7%, respectively) and gas (6.21 and 8.54%) were formed on the askangel catalyst. The octane rating for benzines obtained during cracking of the distillate from the destructive distillation of sulfurous petroleum residue fluctuated between 78 and 80 in both cases, while the cetane rating of the diesel fractions was 30-31.

DATE ACQ: 10Apr64

SUB CODE: FP

ENCL: 00

2/2

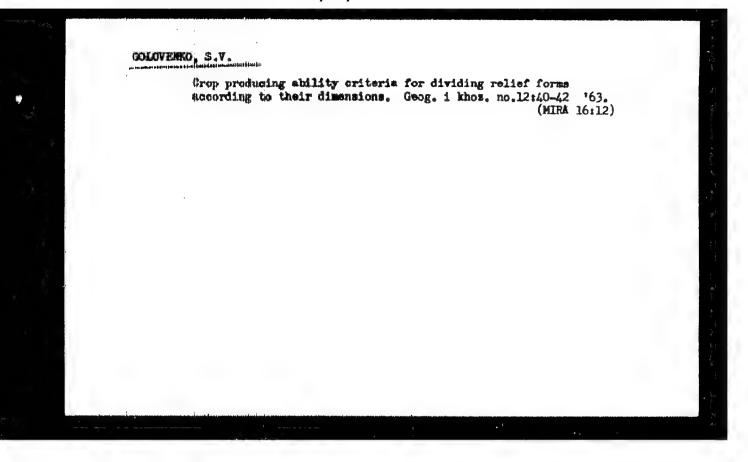
IVANOV, K.I., red.; EMLOTSERKOVSKIY, M.Yu., red.; BOLYSHEV, N.N., red.; GEDYMIN, A.V., red.; GLAZOVSKAYA, M.A., red.; GOLOVENKO, S.V., red.; ZWORYKIN, K.V., red.; IGNAT'YEV, G.M., red.; KUZNETSOV, G.A., red.; LEHENEV, N.P., red.; LEHEDEV, P.N., red.; RAKITHIKOV, A.N., red.; SHRININ, L.B., red.; GREBTSOV, P.P., red.; YERMAKOV, M.S., tekhn. red.

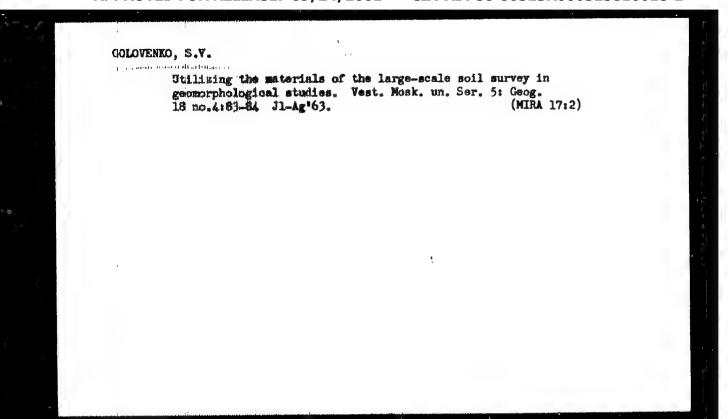
[Accounting for and the evaluation of agricultural land]

Uchet i otsenka sel'skokhoziaistvennykh zemel'. Pod red. K.I.

Ivanova. Moskva, Izd-vo Mosk. univ., 1963. 385 p.

(Farm--Valuation) (Soils--Classification) (Cadasters)





### COLOYEDENO, A.F.

A case of foreign body in the vagina. Akush. 1 gin. no.6:81-82 (MIRA 8-2 (MIRA 8:2)

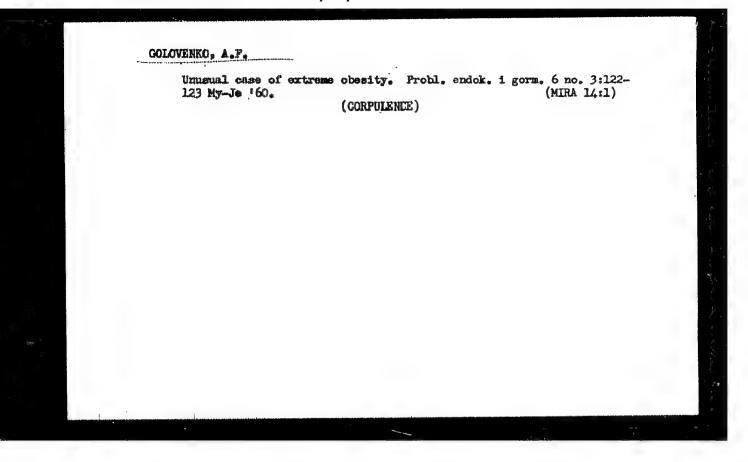
l. Is khirurgicheskogo otdelsniya (zav. A.F.Golovenko) Limanskoy rayonnoy bol'nitsy Krasnodarskogo kraya.

(VAGINA, foreign bodies
glass bottle, retained from childhood)

(FOREIGN BODINS

vagina, glass bottle, retained from childhood)

# "APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515810018-2



GOLOVENKO, Hikolay Aleksendrovich; YAROTSKIY, Aleksey Samoylovich; DKITHERKO, N.2., red.; POLONSKIY, S.A., tekhn. red.

[Flamming capital investments and unfinished construction in the industry of the Moldavian S.S.R.]Planirovanie kapital'nykh vlozhenii i nemavershennoe stroital'stvo v promyshlennosti Foldavskoi SSR (po dannym 16 stroek). Kishinev, Izd-vo "Shtiintsa," 1962. 32 p. (MIRA 15:12)

(Moldavia-Capital investments)
(Moldavia-Construction industry-Management)

GOLOVENKO, Kikolay Aleksandrovich; VOROB'YEV, A.A., red.; POBAZHRUBIKOVA, Ye., red.

[Precast reinforced concrete industry of Moldavia and its raw material base] Promyshlennost' sbornogo zhelezobetona Moldavakoi SSR i ee syr'evaia baza. Kishinev, Kartia moldoveniaske, 1964. 95 p. (MIRA 17:7)

OCILOVENKO, S. V.

"Geographic Nature of the Soil Complexity of the Northern Area Between the Volga and the Ural Rivers of the Near-Caspian Lowlands." Cand Geog Sci, Moscow Order of Lenin State U iment H. V. Lomonosov, 19 Feb 54. Dissertation (Vechernyaya Moskva Moscow, 10 Feb 54)

SO: SUM 186, 19 Aug 1954

### GOLOVENED, 8.V.

Gypsum and salt contents of Tertiary continental clays of the Turgay tableland. Vest. Mosk. un. Ser. biol., pochv., geol., geog. 12 no.4: 239-243 157. (NIBA 11:5)

l. Kafedra geografii i kartografii pochv Moskovskogo gosudarstvennogo universiteta.

(Turgay Steppe-Clay) (Solonets soils)

# COLOVERKO, S.Y.

Valley-strewn meso- and microrelief in the western part of the Turgay tableland. Vest.Mosk.un.Ser.biol., pochv., geol., geog. 14 no.2:217-225 '59. (MIRA 13:4)

1. Kafedra geografii i kartografii pochv Moskovskogo gos. universiteta. (Turgay Gates-Physical geography)

# GOLOVERIO, S.V. Solomets complexes of residual hills in the western part of of the Turgay Tableland. Vest. Mosk. un. Ser. 5: Geog. no.2134-41 Mr. Ap '61. (MIRA 14:4) 1. Kafedry geografii pochv i biogegrafii Moskovskogo universiteta. (Turgay Tableland—Solonets soils)

GOLOVENKO, S.V.; GORBUNOVA, L.I.; LEONOVA, T.N.

Contents and the mapping of land cadastre maps of administrative regions. Yest. Mosk. un. Ser. 5: Geog. 19 no.2:65-71 Mr-Ap (MIRA 17:4)

1. Laboratoriya izucheniya i otsenki zemel'nykh fondov Moskovskogo universiteta.

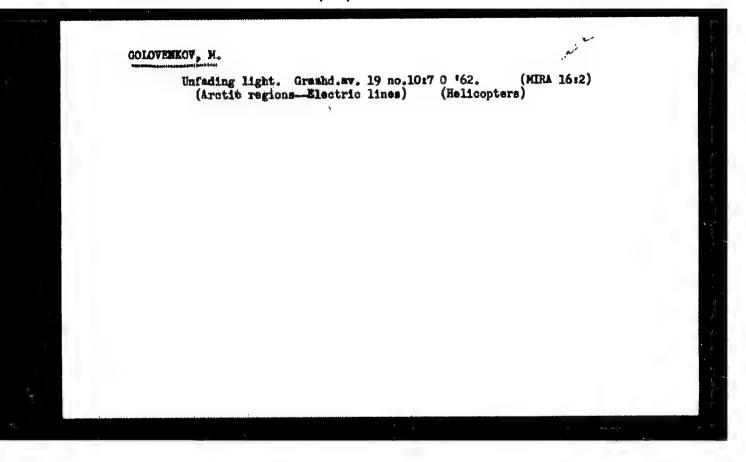
SERGENEY, L.; SHOBODCHIEOV, M. (Krasmoyarsk); L'VOV, M. (Stalino);

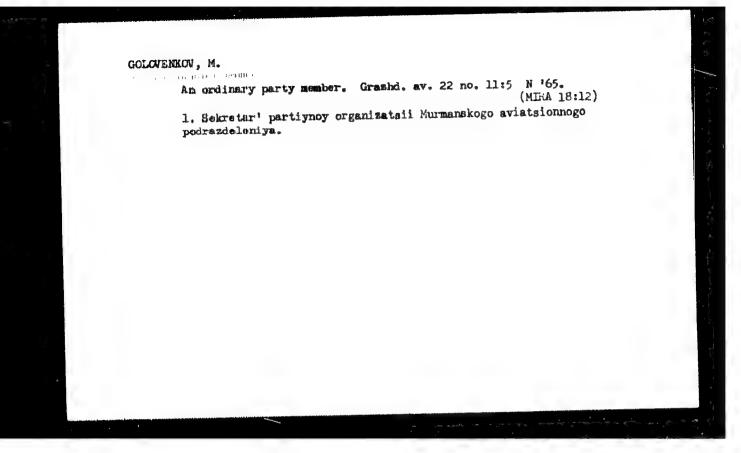
RETEROSTANTS, En.; GOLOVERROV, M.; LIARBOVETSKII, M., (Energon);

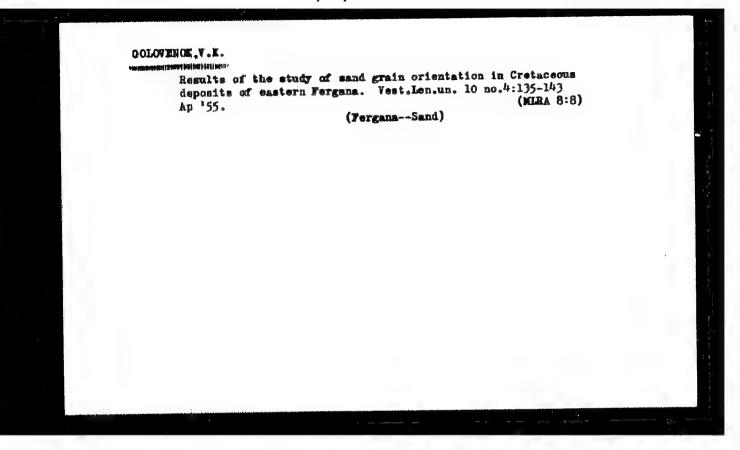
FIEOGEROV, M., (Petrosavodsk)

Hveryday work. Grankd. av. 17 no.12:17-19 D '60. (MIRA 14:3)

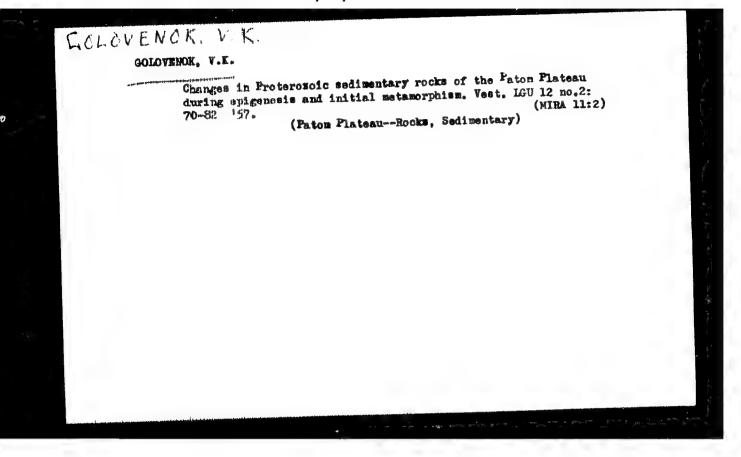
(Aeronauties, Commercial) (Flight crews)







## "APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515810018-2



# Shratigraphy of the mortheastern margin of the Paton Plateau [with summary in English]. West, LEU 12 no.24:54-64 '57, (Raton Plateau—Geology, Stratigraphio) (MIRA 11:5)

20-118-4-49/61

AUTHORS:

Salop, L. I., Golovenok, V. K., Zhidkov, A. Ya.

Shalek, Ye. Ar-

TITLE

On the Age of the last Geosyncline Folding in the Baykal Upland (O vozreste posledney geosinklinal'noy skladchatosti.

v Baykal'akom nagor'ye)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 4, pp. 800-802

ABSTRACT

There are various standpoints concerning the age of this pariod of folding since the layers in question already belong to the Meso-Cainozoicum and are scarcely dislocated (ref. 1-4). The investigations of the authors on the edge of the upland in question have confirmed the opinion that the last stage of the geosyncline development took place at the boundary between middle-and wper-Cambrian. It is completely justified to speak of a Pribaykal skiy front flamme from upper Cambrian in which strangely colored red molasse sediments (molassovyye) were accumulated. The formation of these masses had to take place simultaneously with great tectonic movements

Card 1/3

On the Age of the last Geosyncline Folding in the 20-118-4-49/61 Baykal Upland

within the mentioned upland. These movements are dated by a discordance between  $\frac{cn}{1}$  and cn. However, the time of the fold formation has to be restricted to the interval between Cm and Cm if the geological data of the inner districts of the upland are taken into account where the middle Cumbrian sediments take part in the fold formation together with the lower Cambrian. The tectonic phase was, however, obviously not so much limited with respect to time. Many researchers (ref.12) are of opinion that the age of the fold formation can be determined more precisely only according to the time of the formation of the conglomerates of the sole, and not according to the discordance. The sediments of the Verkholenskaya suite of the mentioned front flexure must be counted among such formations. This upper-Cambrian suite rests discordantly upon the carbonate mass of lower-Cambrian in the districts of the Siberian platform which border on the Baykal upland. This fact has served as basis for the above mentioned conclusion (ref.4) concerning the last stage of the geosyncline development of the upland between

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middle- and upper - Cambrian. This folding apperently began after middle-Cambrian and was continued in upper-Cambrian. The low folding of the Verkholenskaya suite is a proof. The last stage of the movements is fixed by a great marine transgression. There are 12 Soviet references.

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